

# Claims

[c1] What is claimed is:

1. An intravenous injection device for detecting the position of a vein of an examinee and injecting comprising: a pedestal comprising a housing, a pulse ultrasound probe installed in front of the housing, and a microprocessor installed in the housing wherein the pulse ultrasound probe comprises an oscillator for emitting a pulse ultrasonic signal toward the examinee along the direction of the housing and a sensor for receiving the ultrasonic signals reflected by the examinee and converting the reflected signals into electric signals to output to the microprocessor;  
a propeller for moving the pedestal along the direction of the pulse ultrasonic signals; and  
a syringe coupled to the propeller, being moved along the direction of the pulse ultrasonic signals by the propeller.

[c2] 2. The intravenous injection device of claim 1 wherein the propeller is driven by a driving signal from the microprocessor.

[c3] 3. The intravenous injection device of claim 1 wherein

the propeller comprises a clipper for clipping the syringe, and a motor fixed on the housing or the clipper and its power output coupled to the clipper or the housing in order to convey the clipper along the direction of the pulse ultrasonic signals.

- [c4] 4. The intravenous injection device of claim 3 wherein an aperture is formed on the housing to contain the clipper.
- [c5] 5. The intravenous injection device of claim 4 further comprising a cover covering the front end of the housing and the inner wall of the housing to prevent the intravenous injection device from contaminating.
- [c6] 6. The intravenous injection device of claim 4 wherein a stopper is formed at a predetermined distance from the front end on the inner wall of the housing in order to stop the clipper at a predetermined depth.